The University of Kansas

Center for Research on Learning

The Strategic Instruction Model:Responding to the Challenge of NCLB

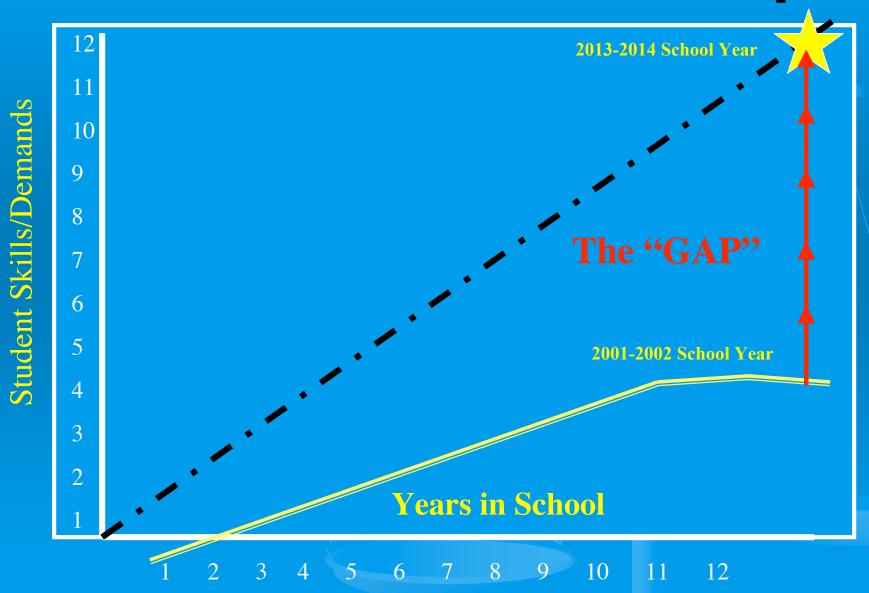
About the KU-CRL

Founded in 1978

Mission: Dramatically improve the performance of at-risk students and students with disabilities in grades 4-12 through research-based interventions

- \$70+ million dollars of contracted R & D
- International Professional Development Network
 - 275,000 teachers in 3,500 school districts

The Performance Gap



What do students in the GAP need for success?

- Skills/Strategies/Knowledge of Content
- ✓ Goal oriented-MOTIVATION
- Strategy Proficient- "The G.I.P."
- Mentors & Connections
- Intensive, Explicit, Ongoing Instruction
- Comprehensive Support
- Great Content Instruction

Session Outcomes

Raise awareness of "SIM"

Define "strategic instruction"

 Explore examples of a Content Enhancement Routine and a Learning Strategy



The Strategic Instruction Model

SIM

Strategies

- SIM Curriculum
- Strategic Tutoring

Content Enhancement

- Planning Routines
- Teaching Routines

SIM Content Literacy Continuum

CONTENT CLASSES

Level 1. Enhanced Content Instruction

Students not making adequate progress

Level 3. *Intensive*Strategy Instruction

- strategy classes
- strategic tutoring

CONTENT CLASSES

Level 2. Embedded Strategy Instruction

Level 4. *Intensive* Basic Skill Instruction

Level 5. Therapeutic Intervention

Foundational Language Competencies

Content Enhancement Routines (Levels 1 and 2)

- A way of teaching academically diverse classes in which
 - The integrity of the content is maintained
 - Critical content is selected and transformed
 - Content is taught in an active partnership with students
 - Strategies are embedded in the course and introduced to students



Content Enhancement Teaching Routines

Planning and Leading Learning

Course Organizer
Unit Organizer
Lesson Organizer

Explaining Text, Topics, and Details

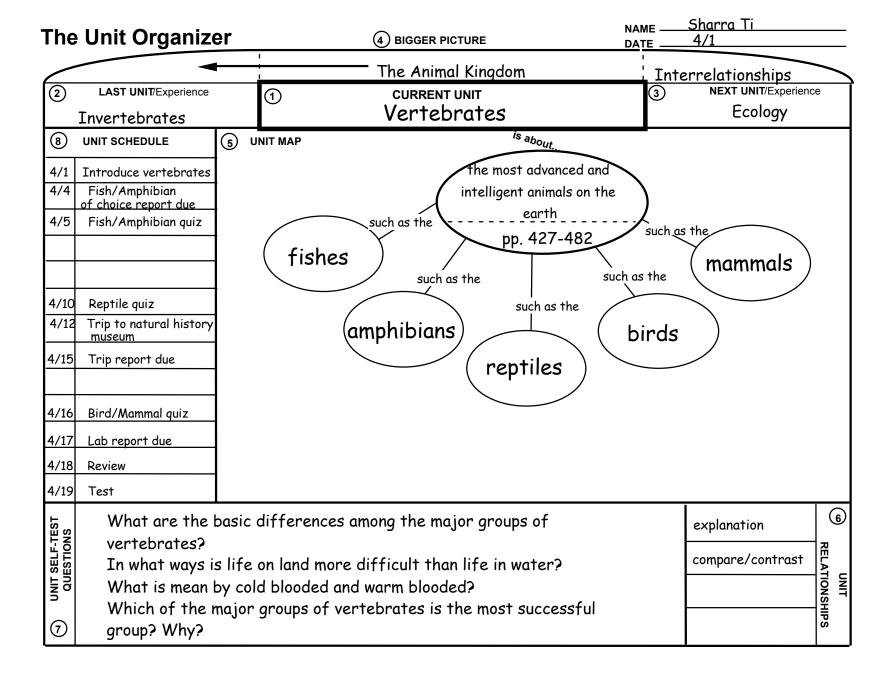
Framing Routine
Survey Routine
Clarifying Routine

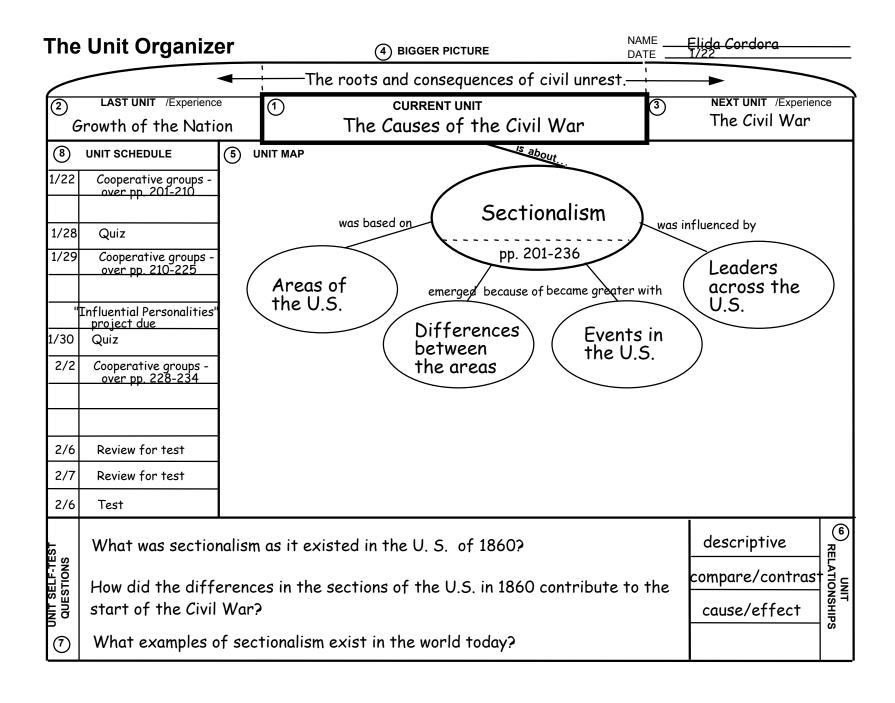
Teaching Concepts

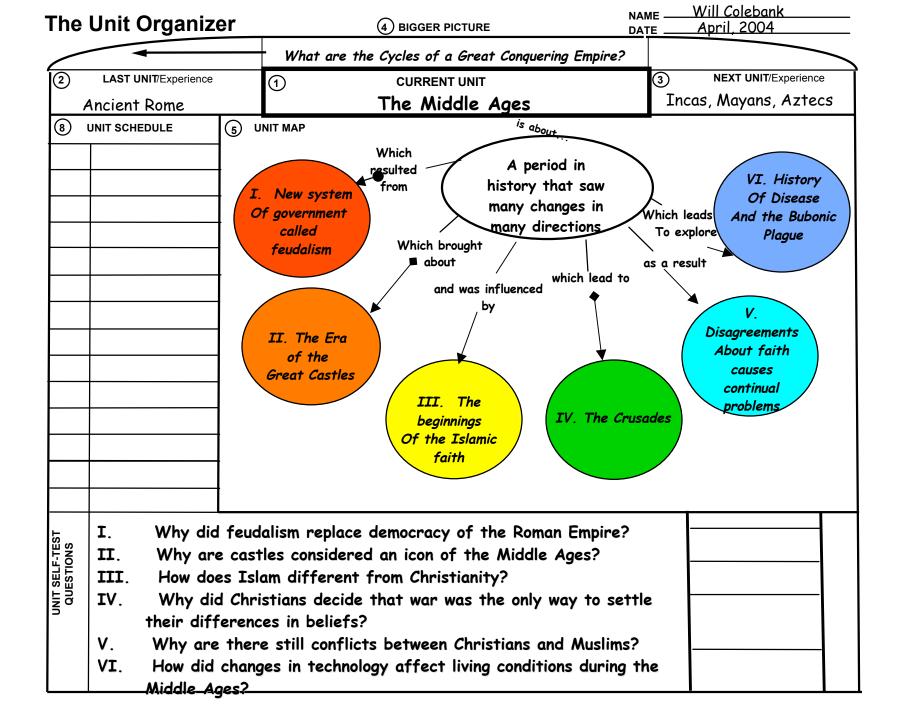
Concept Mastery Routine
Concept Anchoring Routine
Concept Comparison Routine

Increasing Performance

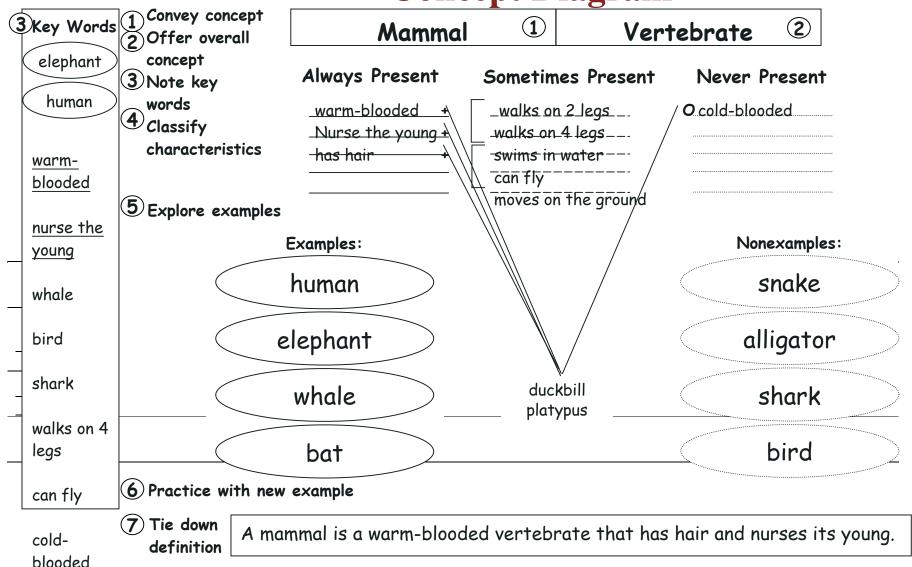
Quality Assignment Routine
Question Exploration Routine
Recall Enhancement Routine
Vocabulary Routine



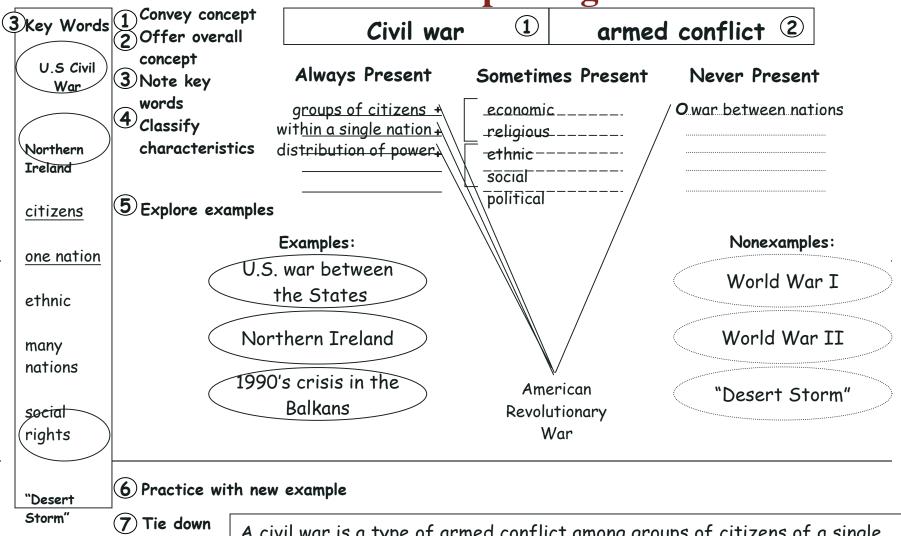




Concept Diagram



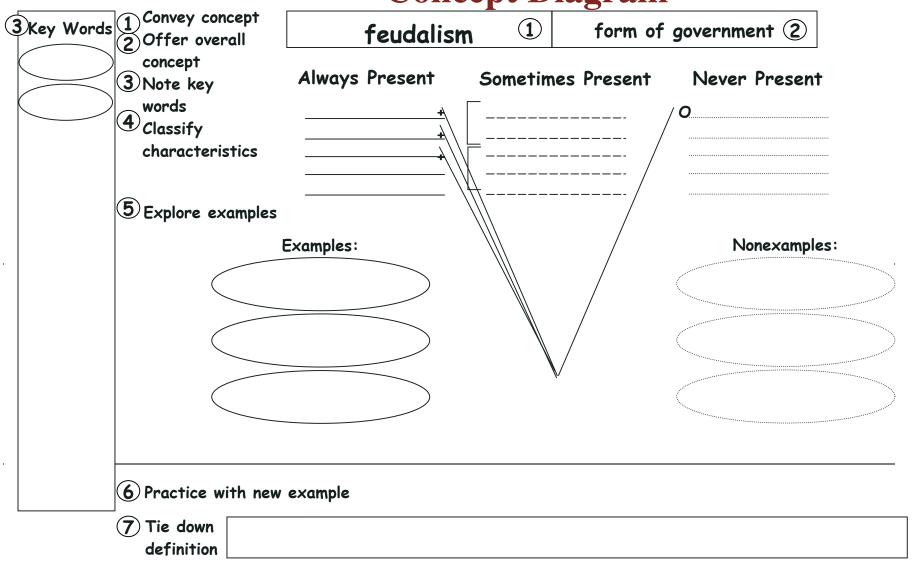
Concept Diagram



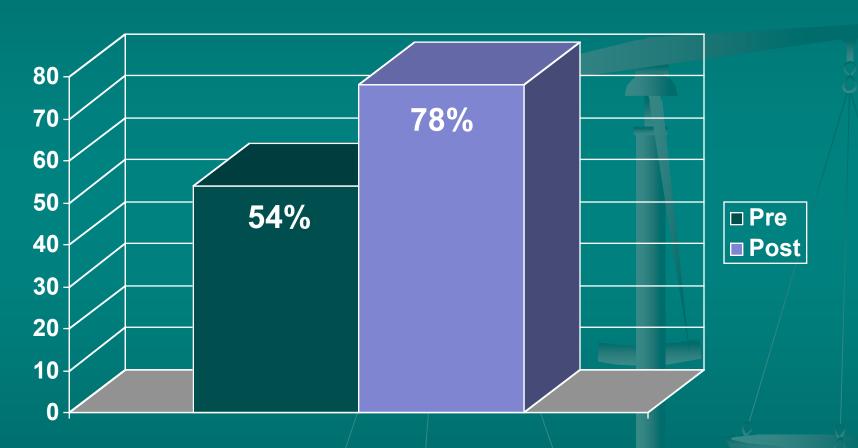
definition

A civil war is a type of armed conflict among groups of citizens of a single nation that is caused by concerns about the distribution of power.

Concept Diagram



Concept Mastery Results



Test scores of students with disabilities on unit tests

An Individual's approach to a task is called a

STRATEGY

It includes how a person thinks and acts when planning, executing, and evaluating performance on a task and its outcomes.

Pretest Word List

steenbok small prehistoric deer-like animal that lived in Africa

scandium rare mineral found in upper-most

regions of the northern hemisphere

pinna type of feather from a bird's wing

recreant unfaithful to a cause or pledge

toman a Persian gold coin of varying value

The Power of Strategies

- Learning Strategy Instruction Works
- Must be Taught with Fidelity to be Effective
- Must be Taught Explicitly
 - The process
 - The thinking that guides the process

Learning Strategies Curriculum

Acquisition

Word Identification
Paraphrasing
Self-Questioning
Visual Imagery
Interpreting Visuals
Multipass

The Bridging Strategy (decoding, word id, fluency)

Making Inferences

Storage

First-Letter
Mnemonic
Paired Associates
Listening/Notetaking
LINCS Vocabulary

Expression of Competence

Sentences

Paragraphs

Error Monitoring

Themes

Assignment Completion

Test-Taking

Motivation

Self Advocacy & Transition Planning

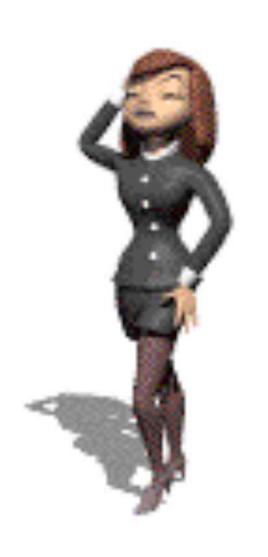
Surface Counseling

Possible Selves

Eight-Stage Instructional Process

- 1. Assess and Make Commitments
- 2. Describe
- 3. Model
- 4. Verbal Practice
- 5. Controlled Practice
- 6. Advanced Practice
- 7. Posttest and Make Commitments
- 8. Generalization

Model of a Learning Strategy



"SHARE

• "SLANT"

• "LINCS"

An Overview of the LINCS Strategy

Step 1: List the parts

Step 2: Identify a Reminding Word

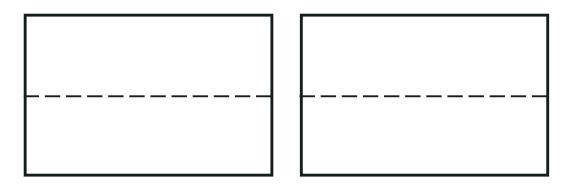
Step 3: Note a LINCing Story

Step 4: Create a LINCing Picture

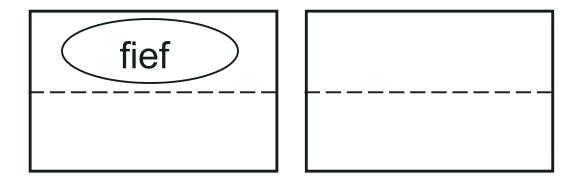
Step 5: **S**elf-test

Creating LINCS Study Cards

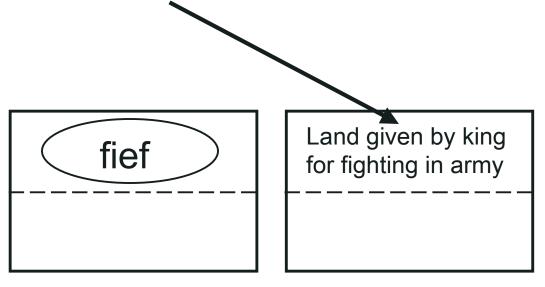
1. Take an index card and divide both sides in half by drawing lines across the middle of both sides.



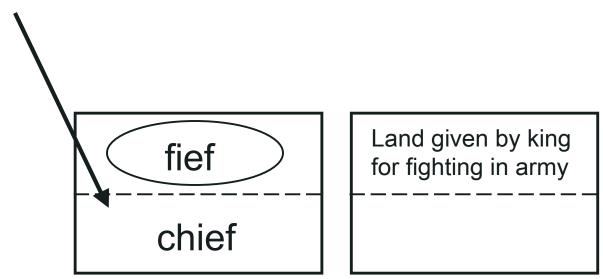
2. Write the word to be learned on the top half of one side. Then circle it.



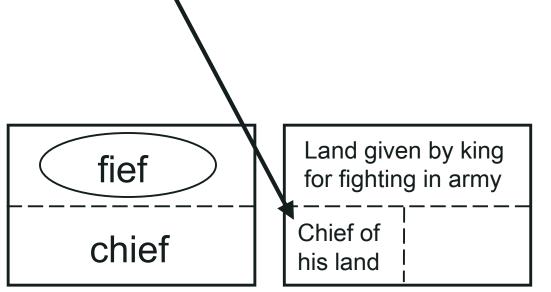
3. Write the parts of the definition you need to remember on the top of the other side.



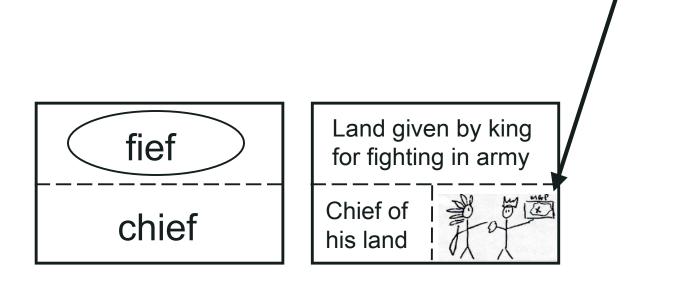
4. Write the Reminding Word on the bottom half of the first side.



5. Write the LINCing Story on the bottom half of the second side.

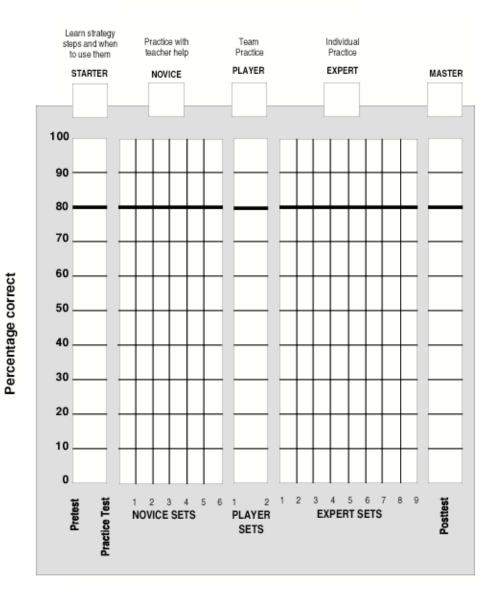


6. Draw the LINCing Picture on the bottom half of the second side.



LINCS Progress Chart

Name: _____



LINCS Strategy Results

Table 1:

Mean Percentage Correct on Social Studies Vocabulary Tests*

Test 1	Test 2
(Before LINCS)	(After LINCS taught
	in Class A)

LD students in Class A NLD students in Class A	53%	77%
	84%	92%
All students in Class B	86%	85%

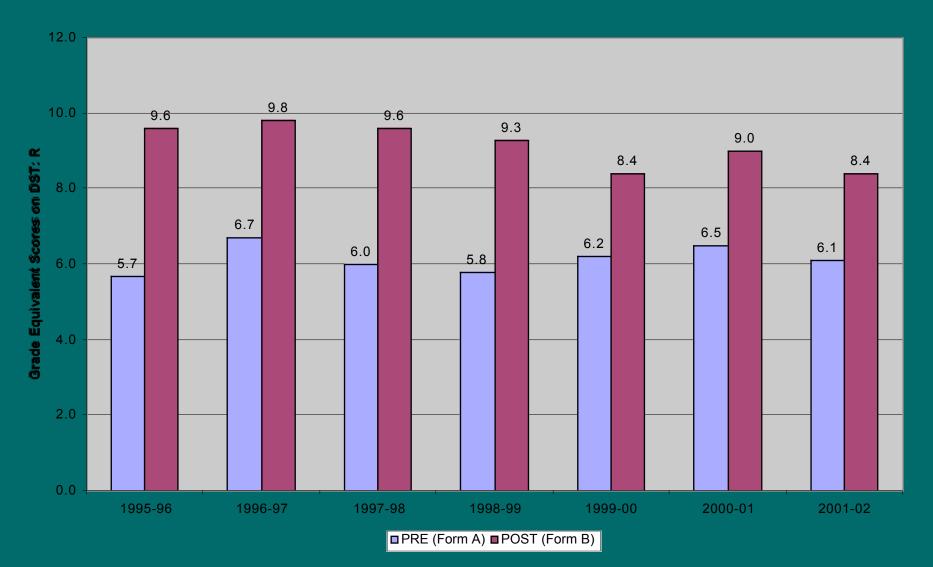
^{*} These results are by M. Wedel, D.D. Deshler, J.B. Schumaker, & E.S. Ellis, in prep., Effects of Instruction of a Vocabulary Strategy in a Mainstream Class, Lawrence, KS: Center for Research on Learning. Some of the LD students in this study received additional instructional time outside of the mainstream class when they needed it to complete the practice activities.

Word Identification

- Discover the context
- Isolate the prefix
- Separate the suffix
- Say the stem
- Examine the stem
- Check with someone
- Try the dictionary



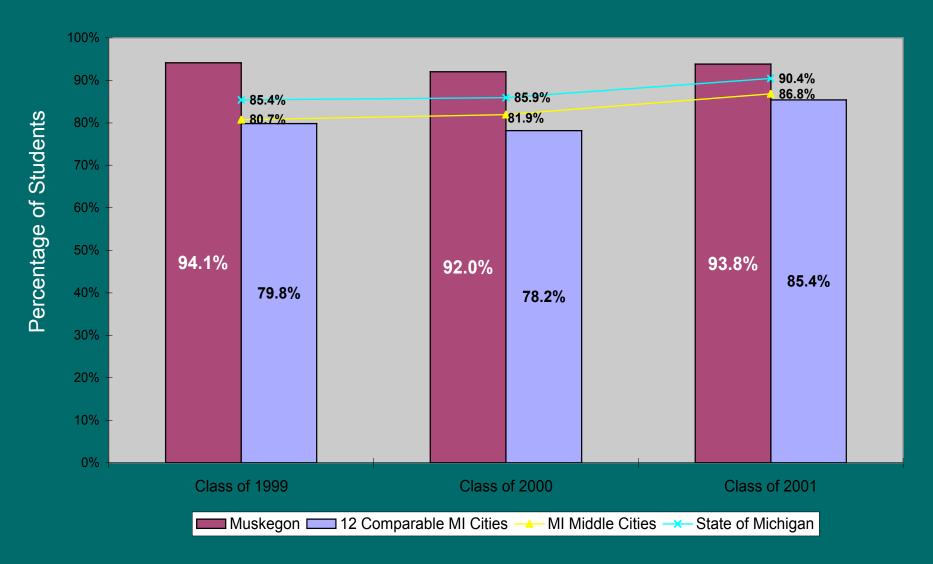
Word Identification Intervention at MHS (9th grade) ALL STUDENTS (Average # students per year is ~100)



Written Expression Strategies

- Sentence Writing Strategy
- Paragraph Writing Strategy
- Theme Writing Strategy
- Error Monitoring Strategy

Muskegon in Relation to Like Districts & State of Michigan Comparisons of Writing MEAP Over 3 Years % Students Passing the Test



"As a result of tracking AYP, I was able to see a difference of an average 35% from pretest to post-test on two units in social studies. I know there are probably many reasons; however, the main one I believe is responsible is the effectiveness of these excellent tools. I have been teaching for 20 years and just finished my Masters in Education. The Content Enhancement program is an effective tool. Our students love the routines and I think as a result of this program, students are learning more. I was able to reach a professional goal to differentiate instruction based on research. The University of Kansas research certainly is convincing."

> Will Colebank Fountain, CO

STUDENT SUCCESS



